Sea-Floor Spreading Notes Review

Name: _____ Date: _____

Group: _____ Section: _____

1) What scientist helped to discover the process of sea-floor spreading? What are the three types of evidence that were used to support his theory?

2) Describe the process of sea-floor spreading?

3) How do rocks along the central valley of the mid-ocean ridge provide evidence of sea-floor spreading?

4) Where would you expect to find the oldest rock on the ocean floor?

5) What is a deep ocean trench? What happens to oceanic crust at a deep ocean trench?

Performance task

Activity #1: Magnetic Fields

1. Look at the fields created by magnets using the field viewers.
2. Try it with two or three magnets and see what patterns you can make.
3. Sketch the field patterns on a piece of paper.

Activity #2: Build a compass

1. Try to pick up a staple using a needle. Does it work?

2. Stroke the needle with a strong magnet 30 times in the same direction. Now try to pick up the staples. What happens?

3. Stick the needle into a piece of Styrofoam.

4. Carefully float it in a cup of water. Compare it to the compass. What direction does it point?

5. If it doesn't work, try stroking the needle again with the magnet.